	Application No.	Applicant(s)
	10/724,628	WALKER ET AL.
Notice of Allowability	Examiner	Art Unit
	Ted Kim	3746
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communication. This application is sub-	nis application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to <u>09/13/2005</u> .		
2. The allowed claim(s) is/are <u>1-9,11,12,14-17,19 and 20</u> .		
3.   Acknowledgment is made of a claim for foreign priority unal (All b) □ Some* c) □ None of the:  1. □ Certified copies of the priority documents have	e been received.	
<ul><li>2.  Certified copies of the priority documents have</li><li>3.  Copies of the certified copies of the priority do</li></ul>		
International Bureau (PCT Rule 17.2(a)).	cuments have been received in	i this national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.  itted. Note the attached EXAM	IINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-1.52) which give		sciaration is deficient.
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> </ol>	•	PTO 048) attached
1) hereto or 2) to Paper No./Mail Date		r 10-540) attached
(b) including changes required by the attached Examiner's Paper No./Mail Date		the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATER FOR THE DEPOSIT OF BIOLO	IAL must be submitted. Note the OGICAL MATERIAL.
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Attachment(s)		
1. Notice of References Cited (PTO-892)	<u> </u>	mal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Sum Paper No./Ma	imary (PTO-413), ail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 09/13/2005		mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Sta	atement of Reasons for Allowance
of Biological Material	9.	·

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Warren Taltavull on 10/25/05.

## **CLAIMS**

1. (amended) A diffuser arrangement of a combustor for an engine, the diffuser arrangement located upstream of the combustor and comprising a wall surface in a fluid flow conduit formed with an aperture between an upstream part of the wall surface and a downstream part of the wall surface, the downstream part having a step displacement away from a projected profile projected in the downstream direction of the upstream part of the wall surface whereby in use flow momentum in a fluid flow past the wall surface facilitates flow bleed into the aperture; wherein the step displacement is between 0.05 to 0.12 of either the conduit radius or half the conduit cross-sectional width; the aperture has a width at the wall surface between 0.04 to 0.07 of either the conduit radius or half the conduit cross-sectional width.

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• 11. (amended) Apparatus as claimed in claim 1 wherein the step displacement is between 0.06 to 0.1 of <u>either</u> the conduit radius <u>or half the conduit cross-sectional</u> width.

- 14. (amended) An arrangement as claimed in claim <u>1</u> <del>13</del> wherein the width is between 0.05 to 0.06 of <u>either</u> the conduit radius <u>or half the conduit cross-sectional</u> width.
- Claims 13, 21, 22 have been canceled.
- 2. The following is an examiner's statement of reasons for allowance: the prior art of record do not fairly teach in permissible combination the claimed invention, the preamble of the claims has been given weight in terms of the diffuser being located upstream of the combustor as it breaths life and meaning into the claims. Note, e.g. that a diffuser placed upstream of the combustor would be sized differently than one downstream. The combination of the two sets of ranges for the step displacement, i.e. between 0.05 to 0.12 of either the conduit radius or half the conduit cross-sectional width and the aperture has a width at the wall surface between 0.04 to 0.07 of either the conduit radius or half the conduit cross-sectional width in combination with the rest of the claim limitations renders the combination distinct from the art of record.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Ted Kim whose telephone number is 571-272-4829. The Examiner can be reached on regular business hours before 5:00 pm, Monday to Thursday and every other Friday.

The fax numbers for the organization where this application is assigned are 571-273-8300 for Regular faxes and 571-273-8300 for After Final faxes.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Thorpe, can be reached at 571-272-4444.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist of Technology Center 3700, whose telephone number is 703-308-0861. General inquiries can also be directed to the Patents Assistance Center whose telephone number is 800-786-9199. Furthermore, a variety of online resources are available at <a href="http://www.uspto.gov/main/patents.htm">http://www.uspto.gov/main/patents.htm</a>

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